

Message Text

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ACTION SS-25

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S E C R E T MOSCOW 15476

EXDIS

E.O. 11652 XGDS-3
TAGS: PARM, US, UR
SUBJECT: TTBT/PNE NEGOTIATIONS: WORKING GROUP MEETING ON JOINT
DESIGN

TTBT/PNE DELEGATION MESSAGE NO. 76

1. SUMMARY. WORKING GROUP ON PROBLEMS OF JOINT DESIGN FOR YIELD
MEASUREMENT INSTRUMENTS MET OCTOBER 27 AND 28. SOVIETS REITERATED
CONCERN WITH LONG CANISTERS AND POSSIBLE EFFECT ON YIELD MEASURE-
MENT. SUGGESTION OF LIMITING TOTAL CANISTER LENGTH TO SIGNIFI-
CANTLY LESS THAN 30 METERS DISCUSSED. SOVIETS PROPOSED SLIFER
IN INSTRUMENT HOLE IF CANISTER LONGER THAN 30 METERS. SOVIETS ALSO
EXPRESSED CONCERN REGARDING SLIFER BESIDE EXPLOSIVE CANISTER
OBTAINING "OTHER INFORMATION", AND ARGUED END OF SLIFER SHOULD BE
AT LEAST FIVE METERS FROM TOP OF CANISTER. END SUMMARY.

2. AT WORKING GROUP MEETING ON PROBLEMS OF JOINT DESIGN OCTOBER
27 (BEZUMOV, VOLKOV/MIKLO - NORDYKE/MACALLISTER/HECKROTTE/TUNIK)
BEZUMOV SAID PURPOSE WAS TO RESOLVE PROBLEMS OF USING SLIFER FOR
YIELD MEASUREMENT.

3. BEZUMOV REITERATED HIS CONCLUSION FROM PREVIOUS MEETING THAT
LENGTH OF CANISTER CONTAINING EXPLOSIVE SHOULD BE LIMITED, AND
THAT DENSITY OF INTERIOR OF ANY PORTION OF CANISTER IN EXCESS OF
LENGTH MUST BE KNOWN. BEZUMOV RAISED QUESTION OF HOW TO VERIFY
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DENISTRY. SOVIETS SAID THEY ARE WILLING TO CONSIDER LIMITING

TOTAL LENGTH OF CANISTER DEPENDING ON WHAT THAT LENGTH IS.
VOLKOV AND BEZUMOV PRESSED FOR SUGGESTION FROM US AS TO WHAT SUCH
A LIMIT MIGHT BE. US RESPONDED THAT COULD NOT GIVE EXACT LENGTH,
BUT BELIEVED IT COULD BE SIGNIFICANTLY LESS THAN 30 METERS. WHEN
US PRESSED SOVIET VIEW OF LENGTH, SOVIETS INITIALLY DEFERRED ANSWER.
LATER VOLKOV SUGGESTED 10-15 METERS.

4. VOLKOV THEN RAISED QUESTION OF POSITIONING SLIFER SENSOR
CABLE, SAYING THAT WHEN IT WAS BESIDE CANISTER POSSIBILITY OF
OBTAINING "OTHER INFORMATION" WAS VERY GREAT. BEZUMOV ARGUED THAT
UNLESS IT IS POSSIBLE TO KEEP END OF SLIFER 4-5 METERS FROM TOP OF
CANISTER, SLIFER SHOULD GO IN SEPARATE INSTRUMENT HOLE. WHEN
PROBLEMS RELATED TO USE OF INSTRUMENT HOLE WERE REHEARSED,
BEZUMOV AND VOLKOV AGREED WITH THEM. VOLKOV QUESTIONED WHY END
OF SLIFER SHOULD BE TWO TIMES CUBE ROOT OF YIELD FROM BOTTOM OF
CANISTER, ARGUING THAT BOTTOM OF CANISTER CANNOT BE CENTER OF
EXPLOSION. HE SUGGESTED MEASURING TWO TIME CUBE ROOT OF YIELD
FROM MIDDLE OF CANISTER.

5. COMMENT: SOVIETS APPEAR TO BE CONNECTING A LIMITATION ON
LENGTH OF EXPLOSIVE CANISTER WITH OPPORTUNITY TO GAIN "OTHER
INFORMATION". WHEN IT WAS POINTED OUT THAT THEY COULD MAKE THEIR
CANISTER SUFFICIENTLY SHORT AND THEREBY LIMIT AVAILABILITY OF SUCH
INFORMATION, THEY MADE NO ATTEMPT TO RESPOND TO THIS ARGUMENT.
END COMMENT.

6. VOLKOV THEN SAID MYASNIKOV COULD NOT FIND THE VALUES FOR
COEFFICIENTS IN EQUATION FOR CALCULATING RELATIONSHIP OF RADIUS AND
TIME WHICH WERE GIVEN IN JUNE, AND ASKED IF US COULD GIVE THEM
AGAIN. US SAID APPROXIMATE VALUES WERE: A EQUALS 6.0, AND B
EQUALS 0.5. SOVIETS ASKED IF THESE VALUES WERE FOR PARTICULAR
ROCK, SPECIFICALLY ASKING FOR DATA ON DOLOMITE. US SAID NOT SURE
WHETHER US HAD MUCH DATA FOR DOLOMITE. US REPEATED THAT THERE NO
DEPENDENCE ON ROCK TYPE, AND SOVIETS AGAIN EXPRESSED DISBELIEF
ABOUT THIS.

7. US ASKED FOR CORRESPONDING SOVIET VALUES AND HOW THEY DEPENDED
ON ROCK TYPE. VOLKOV SAID THEY DID NOT YET HAVE THEIR DATA IN
FORM WHICH COULD BE GIVEN TO US BUT ARE WORKING ON IT. US SAID
THAT AGREEMENT ON METHODS OF ANALYSIS COULD ONLY BE REACHED IF
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BOTH SIDES LAID DATA ON TABLE.

8. COMMENT: ALTHOUGH THE DISCUSSION IN LAST TWO MEETINGS HAS BEEN
SOMEWHAT DISCONNECTED, TWO CONCERNS SEEM TO BE DRIVING SOVIETS:

(A) WORRY THAT THE US COULD GAIN EM DATA (THOUGH NOT SO STATED)
FROM SLIFER IF REQUIREMENT OF SLIFER LOCATION WOULD PLACE END OF
SLIFER BESIDE THEIR CANISTER, AND

(B) USE BY US OF VERY LONG EMPTY CANISTERS WHICH COULD DISTORT SHOCK WAVE AND INVALIDATE SLIFER YIELD MEASUREMENT IN A WAY UNKNOWN TO THEM.

SOVIET EFFORT TO LIMIT LENGTH OF CANISTER SEEMS TO BE DIRECTED AT LATTER CONCERN SINCE, BY LIMITING LENGTH OF THEIR OWN CANISTER THEY ARE ABLE TO SOLVE FIRST CONCERN NO MATTER WHAT TREATY PROVIDES, AT LEAST FOR LARGER YIELDS. HOWEVER, SOVIETS MAY FEEL THAT IF THEY MUST LIMIT LENGTH OF THEIR OWN CANISTERS, LENGTH OF U.S. CANISTERS SHOULD BE LIMITED ALSO.

9. SOVIET CONCERNS REGARDING SECOND POINT IN PARA 8 COULD PROBABLY BE MET BY ONE OF FOLLOWING TWO ALTERNATIVES:

(A) LIMIT CANISTER CONTAINING EXPLOSIVES TO SOME MAXIMUM LENGTH WITH NO OTHER CANISTER BEING PERMITTED IN HOLE; OR

(B) LIMIT CANISTER CONTAINING EXPLOSIVES TO SOME MAXIMUM LENGTH, WITH ANY PORTION OF CANISTER LONGER THAN THAT LENGTH, OR ANY OTHER CANISTER IN EMPLACEMENT HOLE, BEING AVAILABLE FOR INSPECTION BY OBSERVERS.

10. US HAS SUGGESTED CONSIDERATION OF A FORMULATION ALONG LINES OF ALTERNATIVE (B) ABOVE, BUT THERE ARE PROBLEMS IN DESCRIBING HOW THIS WOULD BE EXERCISED IN PRACTICE. MOTIVATION OF ANY INSPECTION WOULD BE TO CONFIRM THAT AVERAGE DENSITY OF MATERIAL INSIDE CANISTER IS BETWEEN 1 AND 3 GRAMS PER CUBIC CENTIMETER.

11. REQUEST ADVICE ON RELATIVE ACCEPTABILITY AND SPECIFIC LIMITS FOR LENGTH OF EXPLOSIVE CANSITER FOR ABOVE TWO ALTERNATIVES ASAP. END COMMENT.

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12. AT WORKING GROUP MEETING OCTOBER 28 SOVIETS PROPOSED AMENDING PARA 7 ARTICLE IV PROTOCOL II TO PROVIDE FOR MEASURING LOCATION OF BOTTOM OF SLIFER FROM CENTER OF CANISTER, BUT REQUIRING THAT IN ANY CASE IT SHALL NOT BE NEARER THAN FIVE METERS TO TOP OF CANISTER. IN ADDITION, SOVIETS PROPOSED CHANGING ALL NUMBERS "30" IN PARA 7 TO "10", AND ADDING PROVISION THAT, IF EXPLOSIVE CANSITER IS LONGER THAN TEN METERS, HOST PARTY SHALL, AT ITS OPTION, EITHER PROVIDE DATA ON DISTRIBUTION OF DENSITY INSIDE PORTION OF CANISTER BEYOND 10 METERS OR PLACE SLIFER(S) IN SATELLITE HOLE NOT MORE THAN 1.5 METERS TIME CUBE ROOT OF YIELD IN KILOTONS FROM EMPLACEMENT HOLE. IN CONJUNCTION WITH THIS PROPOSAL, SOVIETS PROPOSED OTHER PARTY SHOULD BE PROVIDED WITH CORE FROM HYDRODYNAMIC ZONE FROM EITHER EMPLACEMENT HOLE, EXPLORATION OR INSTRUMENT HOLE.

13. RESTRICTED MEETING SET FOR 4:00 PM OCTOBER 29 AT MOROKHOV'S
REQUEST TO REVIEW STATUS.
MATLOCK

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